FIG. 1

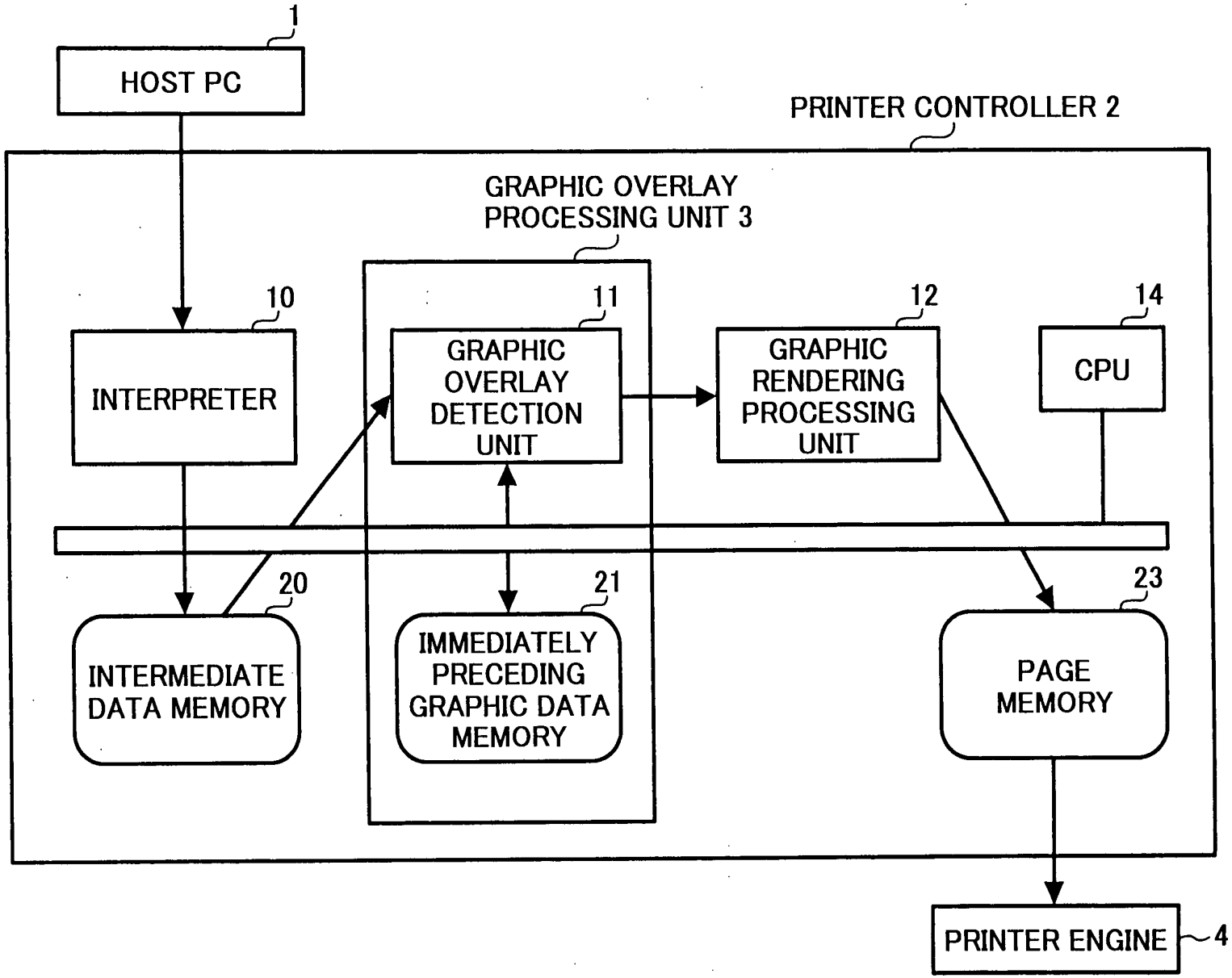
1
HOST PC
PRINTER CONTROLLER 2
GRAPHIC OVERLAY PROCESSING UNIT 3
10
INTERPRETER
11
GRAPHIC OVERLAY DETECTION UNIT
12
GRAPHIC RENDERING PROCESSING UNIT
14
CPU
20
INTERMEDIATE DATA MEMORY
21
IMMEDIATELY PRECEDING GRAPHIC DATA MEMORY
23
PAGE MEMORY
PRINTER ENGINE
4

FIG. 2

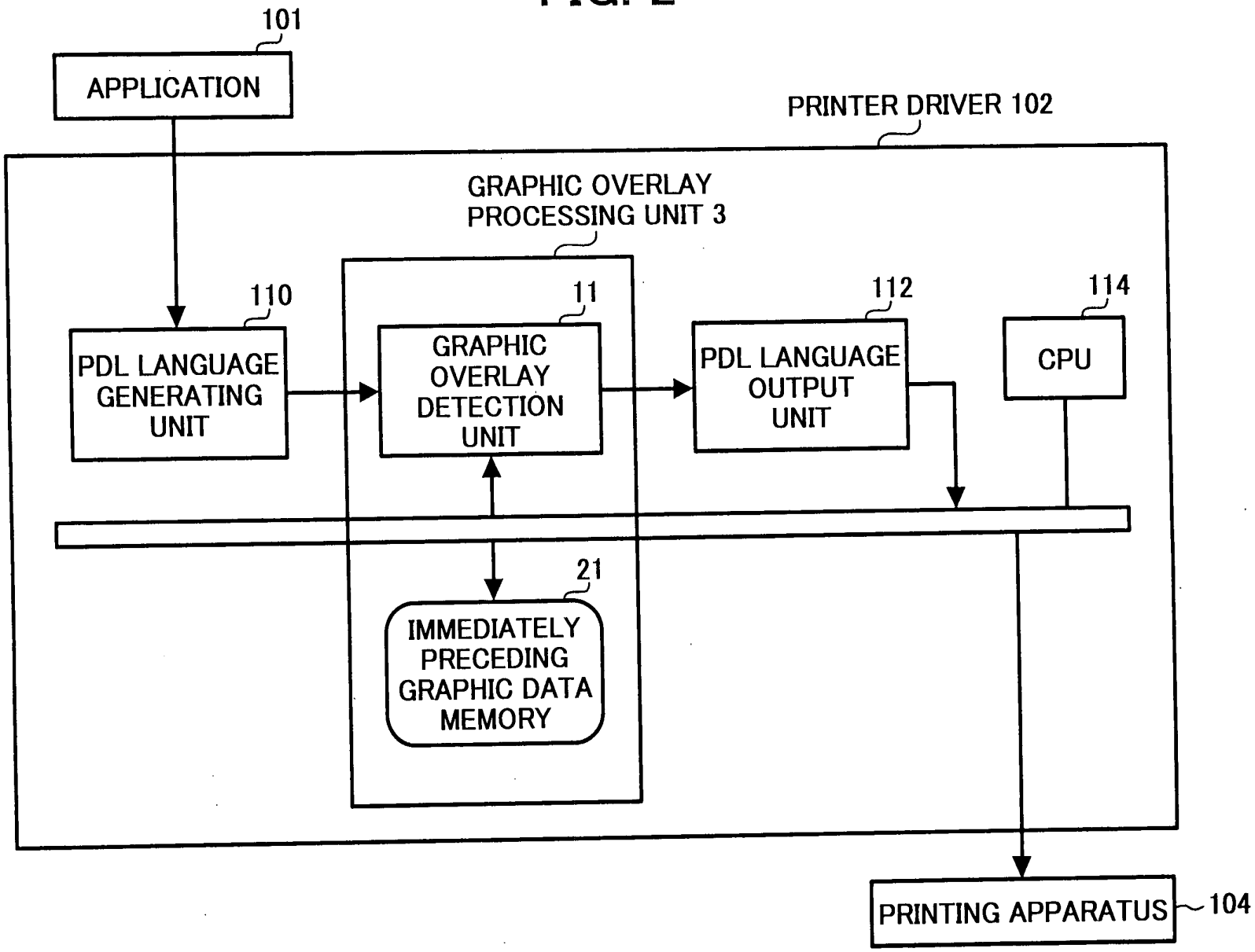
101
APPLICATION
PRINTER DRIVER 102
GRAPHIC OVERLAY PROCESSING UNIT 3
110
PDL LANGUAGE GENERATING UNIT
11
GRAPHIC OVERLAY DETECTION UNIT
112
PDL LANGUAGE OUTPUT UNIT
114
CPU
21
IMMEDIATELY PRECEDING GRAPHIC DATA MEMORY
PRINTING APPARATUS
104

FIG. 3A

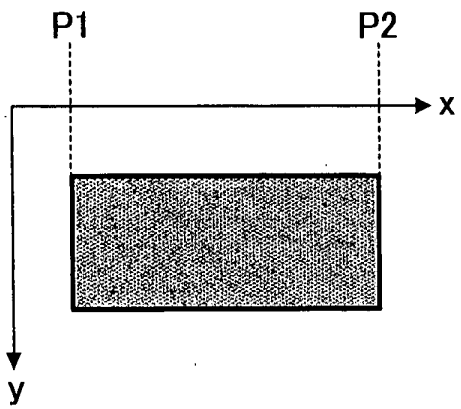

FIG. 3B

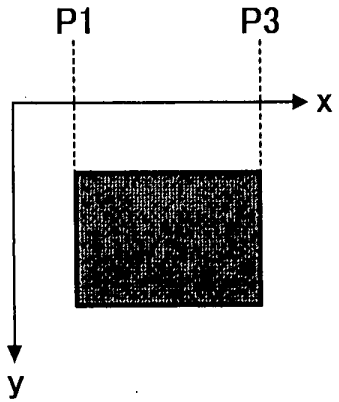

FIG. 3C

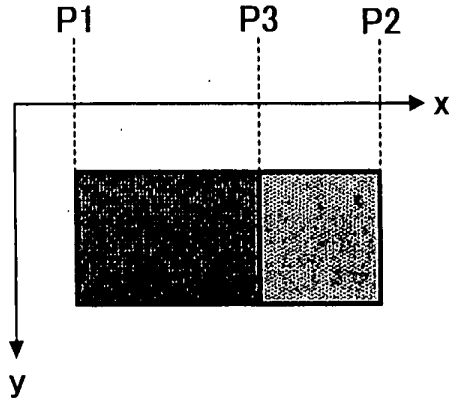

FIG. 4

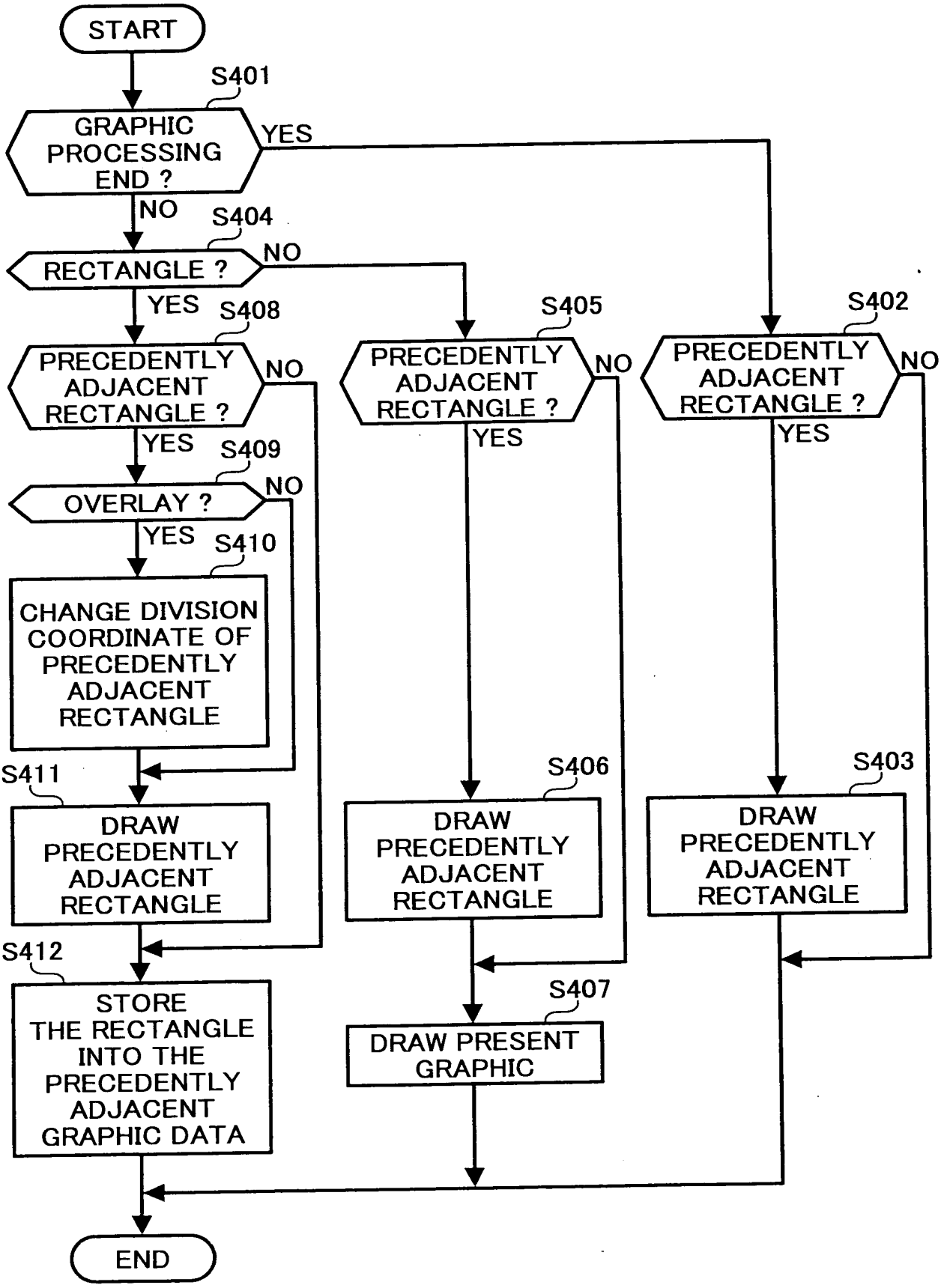
START
S401
GRAPHIC PROCESSING END ?
YES
NO
S404
RECTANGLE ?
NO
YES
S408
PRECEDENTLY ADJACENT RECTANGLE ?
NO
YES
S409
OVERLAY ?
NO
YES
S410
CHANGE DIVISION COORDINATE OF PRECEDENTLY ADJACENT RECTANGLE
S411
DRAW PRECEDENTLY ADJACENT RECTANGLE
S412
STORE THE RECTANGLE INTO THE PRECEDENTLY ADJACENT GRAPHIC DATA
S405
PRECEDENTLY ADJACENT RECTANGLE ?
NO
YES
S406
DRAW PRECEDENTLY ADJACENT RECTANGLE
S407
DRAW PRESENT GRAPHIC
S402
PRECEDENTLY ADJACENT RECTANGLE ?
NO
YES
S403
DRAW PRECEDENTLY ADJACENT RECTANGLE
END

FIG. 5A

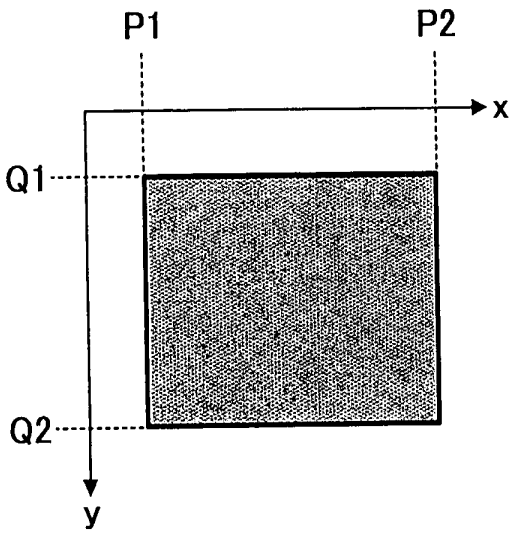

FIG. 5B

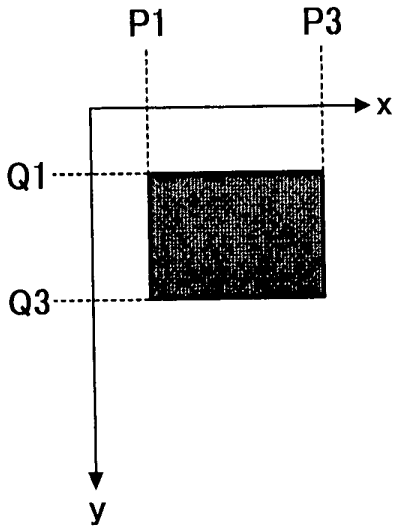

FIG. 5C

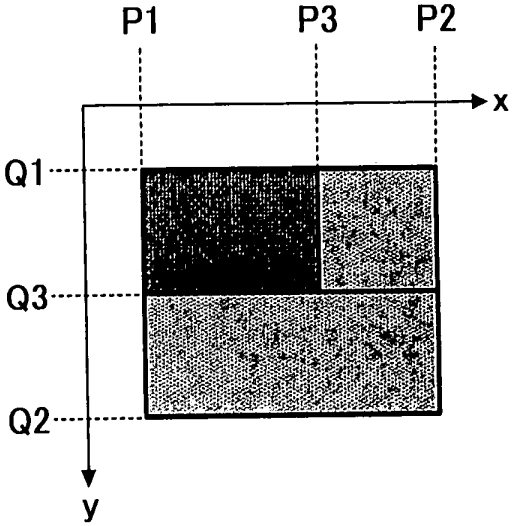

FIG. 6A

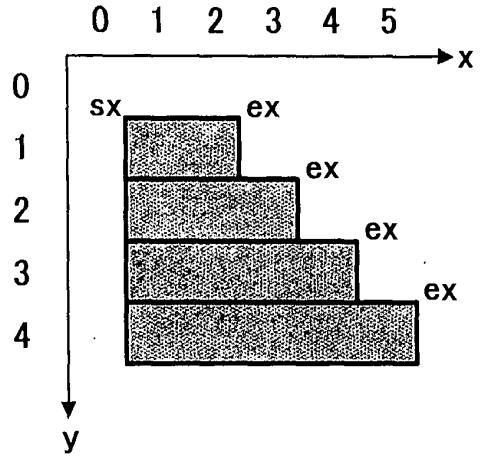

FIG. 6B

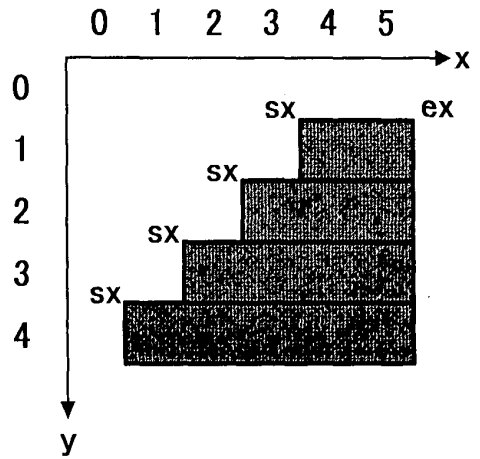

FIG. 6C

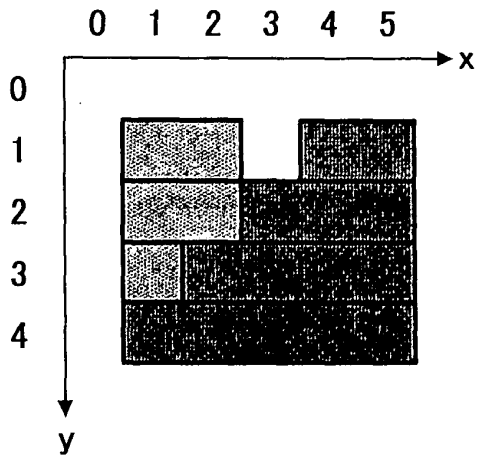

FIG. 7A

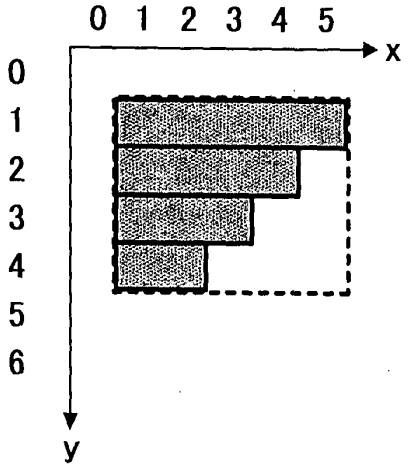

FIG. 7B

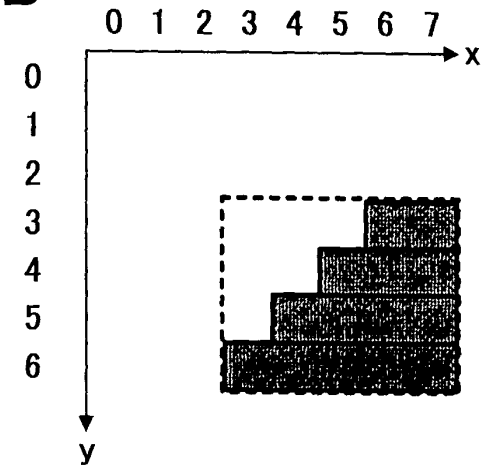

FIG. 7C

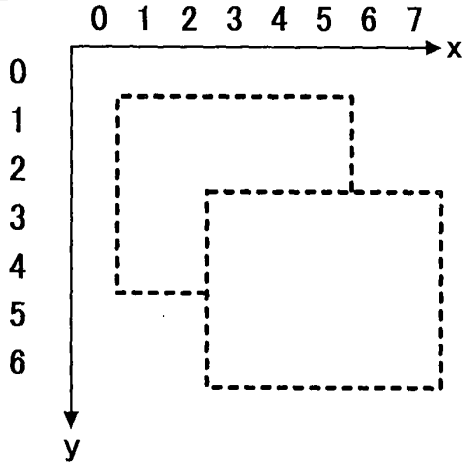
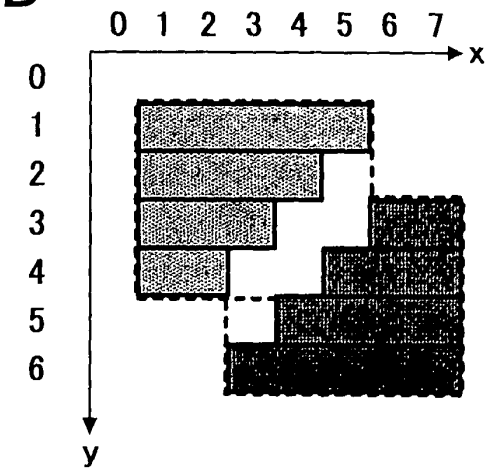
FIG. 7D